

In The Claims:

Claims 9, 12, 15, and 20 have been amended as follows:

Sub B37
A³
9. (Once Amended) A field emission device comprising:
a substrate;
a cathode conductive layer disposed over said substrate; and
an emitter tip integral with an emitter layer disposed over said cathode conductive layer and having a base adjacent to the emitter layer, an apex, and a continuously concave exterior surface extending from the base to the apex.

Sub B17
A⁴
12. (Once Amended) A field emission device comprising:
a substrate;
a cathode conductive layer disposed over said substrate; and
an emitter tip projecting from and integral with an emitter layer disposed over said cathode conductive layer and having a base adjacent to the emitter layer, an apex, and an exterior surface, said exterior surface having a substantially paraboloid vertical profile that extends from the base to the apex.

Jul B37
AS

15. (Once Amended) A field emission device comprising:

- a substrate;
- a cathode conductive layer disposed over said substrate; and
- an emitter tip that is an integral portion of a single emitter layer disposed over said cathode conductive layer and having a base adjacent to the emitter layer, an apex, and an exterior surface, said exterior surface having an ovoid profile that extends from the base to the apex.

Jul B37
A6

20. (Once Amended) A flat panel display device comprising:

- a substrate;
- a cathode conductive layer disposed over said substrate;
- an array of emitter tips formed as a part of an emitter layer disposed over said substrate, each of said emitter tips having a height and including a base adjacent to the emitter layer and an apex, each of said emitter tips having an exterior surface, said exterior surface having a profile with a continuous shape that extends from the base to the apex, said continuous shape being selected from the group consisting of a concave shape, a substantially paraboloid shape, and an ovoid shape;
- a conductive gate structure disposed over said cathode conductive layer;
- an array of apertures formed through said conductive gate structure, each of said emitter tips being exposed through one of said apertures; and
- an anode panel for emitting light in response to electrons emitted from said array of emitter tips.